EP 1403278

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DN 140:253919
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TI Process for the synthesis of N-[(S)-1-(ethoxycarbonyl)butyl]-(S)-alanine
  for use in the synthesis of perindopril
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PA Les Laboratoires Servier, Fr.
SO Eur. Pat. Appl., 9 pp.
  CODEN: EPXXDW
DT Patent
LA French
IC ICM C07K005-06
  ICS C07C251-08; C07C229-30; C07C227-32; C07K005-02
CC 34-3 (Amino Acids, Peptides, and Proteins)
  Section cross-reference(s): 1
FAN.CNT 1
  PATENT NO.
                 KIND DATE APPLICATION NO.
                                                       DATE
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PI EP 1403278
                 A1 20040331 EP 2003-292404 20030930 <--
                B1 20050608
  EP 1403278
    R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
      IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
  AT 297407 T 20050615 AT 2003-292404
                                                 20030930
  PT 1403278 T 20050930 PT 2003-292404 20030930 ES 2240926 T3 20051016 ES 2003-3292404 20030930
  WO 2005033127 A1 20050414 WO 2004-FR2463
                                                       20040929
    W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH.
      CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
      GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC.
      LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
      NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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      SN. TD. TG.
PRALEP 2003-292404 A 20030930
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
EP 1403278 ICM C07K005-06
        ICS C07C251-08; C07C229-30; C07C227-32; C07K005-02
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            [ICS,7,C*]; C07K0005-02 [ICS,7]; C07K0005-00 [ICS,7,C*]
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            [I,C*]; C07C0229-30 [I,A]; C07C0251-00 [I,C*];
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        ECLA C07C227/32; C07C229/30; C07C251/08; C07K005/02H1A:
            C07K005/06A1H
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            [ICS,7,C*]; C07C0227-32 [ICS,7]; C07C0227-00
             [ICS,7,C*1; C07K0005-02 [ICS,71; C07K0005-00 [ICS,7,C*1]
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PT 1403278
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WO 2005033127 IPCI C07K0005-06 [ICM,7]; C07C0251-08 [ICS,7]; C07C0251-00
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             [ICS,7,C*]; C07C0227-32 [ICS,7]; C07C0227-00
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             [I,A]; C07K0005-06 [I,A]
         ECLA C07C227/32; C07C229/30; C07C251/08; C07K005/02H1A;
            C07K005/06A1H
OS MARPAT 140:253919
       Perindopril intermediate (S)-EtO2CCHPr-L-Ala-OH was prepd, by condensation of L-alanine
       alkyl or benzyl ester with Et glyoxylate or Et chloro(cyclohexyloxy)acetate, followed by allylation
       with allylzinc bromide, and catalytic hydrogenation.
ST carbethoxybutylalanine prepn intermediate perindopril; alanine
  carbethoxybutyl prepn intermediate perindopril
IT 82834-12-6P 82834-14-8P
  RL: IMF (Industrial manufacture): SPN (Synthetic preparation): PREP
  (Preparation)
    (synthesis of [(ethoxycarbonyl)butyl]alanine for use in prepn. of
    perindopril)
IT 82834-16-0P, Perindopril
  RL: PNU (Preparation, unclassified); PREP (Preparation)
    (synthesis of [(ethoxycarbonyl)butyllalanine for use in prepn. of
IT 924-44-7, Ethyl glyoxylate 13404-22-3, L-Alanine, 1,1-dimethylethyl
  ester, hydrochloride 18925-10-5, Allylzinc bromide 21691-50-9
  90977-01-8
  RL: RCT (Reactant); RACT (Reactant or reagent)
    (synthesis of [(ethoxycarbonyl)butyl]alanine for use in prepn, of
    perindopril)
IT 669088-67-9P 671212-81-0P 671212-82-1P 671212-83-2P 671212-84-3P
  RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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(Reactant or reagent)

 $(synthesis\ of\ [(ethoxycarbonyl)butyl] alanine\ for\ use\ in\ prepn.\ of\ perindopril)$

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

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